



disklavier™

Mark II XG Series

Getting Started & Playback Manual

Manuel d'instruction et des fonctions de reproduction

Handbuch "Einstieg und Wiedergabe"

FCC INFORMATION (U.S.A.)

- IMPORTANT NOTICE: DO NOT MODIFY THIS UNIT!**
This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Yamaha may void your authority, granted by the FCC, to use the product.
- IMPORTANT:** When connecting this product to accessories and/or another product use only high quality shielded cables. Cable/s supplied with this product **MUST** be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the USA.
- NOTE:** This product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for Class "B" digital devices. Compliance with these requirements provides a reasonable level of assurance that your use of this product in a residential environment will not result in harmful interference with other electronic devices. This equipment generates/uses radio frequencies and, if not installed and used according to the instructions found in the users manual, may cause interference harmful to the operation of other electronic devices. Compliance with FCC regulations does not guarantee that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by turning the unit "OFF" and "ON", please try to eliminate the problem by using one of the following measures:
Relocate either this product or the device that is being affected by the interference.
Utilize power outlets that are on different branch (circuit breaker or fuse) circuits or install AC line filter/s.
In the case of radio or TV interference, relocate/reorient the antenna. If the antenna lead-in is 300 ohm ribbon lead, change the lead-in to co-axial type cable.
If these corrective measures do not produce satisfactory results, please contact the local retailer authorized to distribute this type of product. If you can not locate the appropriate retailer, please contact Yamaha Corporation of America, Electronic Service Division, 6600 Orangethorpe Ave, Buena Park, CA 90620

The above statements apply **ONLY** to those products distributed by Yamaha Corporation of America or its subsidiaries.

IMPORTANT NOTICE FOR THE UNITED KINGDOM

Apply for Upright Models

Connecting the Plug and Cord

IMPORTANT: The wires in mains lead are coloured in accordance with the following code:

BLUE : NEUTRAL
BROWN : LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured **BLUE** must be connected to the terminal which is marked with the letter **N** or coloured **BLACK**.

The wire which is coloured **BROWN** must be connected to the terminal which is marked with the letter **L** or coloured **RED**.

Making sure that neither core is connected to the earth terminal of the three pin plug.

IMPORTANT NOTICE FOR THE UNITED KINGDOM

Apply for Grand Models

Connecting the Plug and Cord

IMPORTANT: The wires in mains lead are coloured in accordance with the following code:

GREEN-AND-YELLOW : EARTH
BLUE : NEUTRAL
BROWN : LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured **GREEN** and **YELLOW** must be connected to the terminal in the plug which is marked by the letter **E** or by the safety earth symbol or coloured **GREEN** and **YELLOW**.

The wire which is coloured **BLUE** must be connected to the terminal which is marked with the letter **N** or coloured **BLACK**.

The wire which is coloured **BROWN** must be connected to the terminal which is marked with the letter **L** or coloured **RED**.

CANADA

This Class B digital apparatus meets all requirements of the Canadian interference-Causing Equipment Regulations.

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

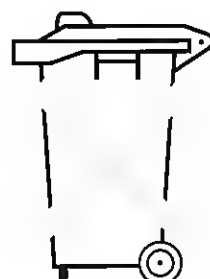
Apply for Upright Models Uniquement pour les pianos droits

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

ATTENTION: POUR EVITER LES CHOCS ELECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

Alleen voor klanten in Nederland

Bij dit produkt zijn batterijen geleverd. Wanneer deze leeg zijn, moet u ze niet weggooien maar inleveren als KCA.



IMPORTANT SAFETY INSTRUCTIONS

INFORMATION RELATING TO PERSONAL INJURY, ELECTRICAL SHOCK, AND FIRE HAZARD POSSIBILITIES HAS BEEN INCLUDED IN THIS LIST.

WARNING — When using any electrical or electronic product, basic precautions should always be followed. These precautions include, but are not limited to, the following:

- Read all Safety Instructions, Installation Instructions, Special Message Section items, and any Assembly Instructions found in this manual **BEFORE** making any connections, including connection to the main supply.
- Main Power Supply Verification:** Yamaha products are manufactured specifically for the supply voltage in the area where they are to be sold. If you should move, or if any doubt exists about the supply voltage in your area, please contact your dealer for supply voltage verification and (if applicable) instructions. The required supply voltage is printed on the name plate. For name plate location, please refer to the graphic found in the Special Message Section of this manual.
- This product may be equipped with a polarized plug (one blade wider than the other). If you are unable to insert the plug into the outlet, turn the plug over and try again. If the problem persists, contact an electrician to have the obsolete outlet replaced. **DO NOT** defeat the safety purpose of the plug.
- DANGER** — Grounding Instructions: Disklavier Grand must be grounded and therefore has been equipped with a three pin attachment plug. If this product should malfunction, the ground pin provides a path of low resistance for electrical current, reducing the risk of electrical shock. If your wall socket will not accommodate this type plug, contact an electrician to have the outlet replaced in accordance with local electrical codes. **DO NOT** modify the plug or change the plug to a different type!
- WARNING:** Do not place this product or any other objects on the power cord or place it in a position where anyone could walk on, trip over, or roll anything over power or connecting cords of any kind. The use of an extension cord is not recommended! If you must use an extension cord, the minimum wire size for a 25' cord (or less) is 18 AWG. **NOTE:** The smaller the AWG number, the larger the current handling capacity. For longer extension cords, consult a local electrician.
- Ventilation:** Electronic products, unless specifically designed for enclosed installations, should be placed in locations that do not interfere with proper ventilation. If instructions for enclosed installations are not provided, it must be assumed that unobstructed ventilation is required.
- Temperature considerations:** Electronic products should be installed in locations that do not significantly contribute to their operating temperature. Placement of this product close to heat sources such as; radiators, heat registers and other devices that produce heat should be avoided.

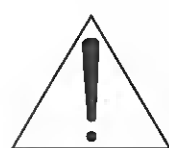
- This product was **NOT** designed for use in wet/damp locations and should not be used near water or exposed to rain. Examples of wet/damp locations are; near a swimming pool, spa, tub, sink, or wet basement.
- This product should be used only with the components supplied or; a cart, rack, or stand that is recommended by the manufacturer. If a cart, rack, or stand is used, please observe all safety markings and instructions that accompany the accessory product.
- The power supply cord (plug) should be disconnected from the outlet when electronic products are to be left unused for extended periods of time. Cords should also be disconnected when there is a high probability of lightning and/or electrical storm activity.
- Care should taken that objects do not fall and liquids are not spilled into the enclosure through any openings that may exist.
- Electrical/electronic products should be serviced by a qualified service person when:
 - The power supply cord has been damaged; or
 - Objects have fallen, been inserted, or liquids have been spilled into the enclosure through openings; or
 - The product has been exposed to rain; or
 - The product does not operate, exhibits a marked change in performance; or
 - The product has been dropped, or the enclosure of the product has been damaged.
- Do not attempt to service this product beyond that described in the user-maintenance instructions. All other servicing should be referred to qualified service personnel.
- This product, either alone or in combination with an amplifier and headphones or speaker/s, may be capable of producing sound levels that could cause permanent hearing loss. **DO NOT** operate for a long period of time at a high volume level or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should consult an audiologist. **IMPORTANT:** The louder the sound, the shorter the time period before damage occurs.
- Some Yamaha products may have benches and/or accessory mounting fixtures that are either supplied as a part or the product or as optional accessories. Some of these items are designed to be dealer assembled or installed. Please make sure that benches are stable and any optional fixtures (where applicable) are well secured **BEFORE** using. Benches supplied by Yamaha are designed for seating only. No other uses are recommended.

SPECIAL MESSAGE SECTION

PRODUCT SAFETY MARKINGS: Yamaha electronic products may have either labels similar to the graphics shown below or molded/stamped facsimiles of these graphics on the enclosure. The explanation of these graphics appears on this page. Please observe all cautions indicated on this page and those indicated on the safety instruction section.



SEE BOTTOM OF ENCLOSURE OR LOWER FRONT PANEL FOR GRAPHIC SYMBOL MARKINGS



The exclamation point within the equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.



The lightning flash with arrowhead symbol within the equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electrical shock.

IMPORTANT NOTICE: All Yamaha electronic products are tested and approved by an independent safety testing laboratory in order that you may be sure that when it is properly installed and used in its normal and customary manner, all foreseeable risks have been eliminated. DO NOT modify this unit or commission others to do so unless specifically authorized by Yamaha. Product performance and/or safety standards may be diminished. Claims filed under the expressed warranty may be denied if the unit is/has been modified. Implied warranties may also be affected.

SPECIFICATIONS SUBJECT TO CHANGE: The information contained in this manual is believed to be correct at the time of printing. However, Yamaha reserves the right to change or modify any of the specifications without notice or obligation to update existing units.

ENVIRONMENTAL ISSUES: Yamaha strives to produce products that are both user safe and environmentally friendly. We sincerely believe that our products and the production methods used to produce them, meet these goals. In keeping with both the letter and the spirit of the law, we want you to be aware of the following:

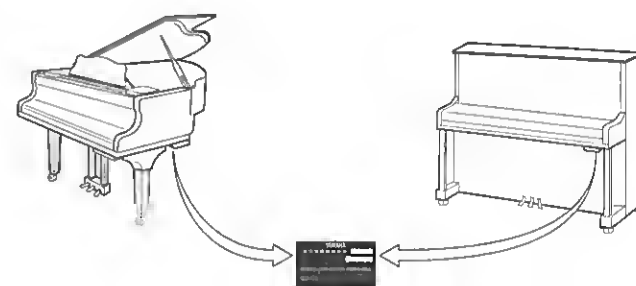
Battery Notice: This product MAY contain a small nonrechargeable battery which (if applicable) is soldered in place. The average life span of this type of battery is approximately five years. When replacement becomes necessary, contact a qualified service representative to perform the replacement.

Warning: Do not attempt to recharge, disassemble, or incinerate this type of battery. Keep all batteries away from children. Dispose of used batteries promptly and as regulated by applicable laws. Note: In some areas, the servicer is required by law to return the defective parts. However, you do have the option of having the servicer dispose of these parts for you.

Disposal Notice: Should this product become damaged beyond repair, or for some reason its useful life is considered to be at an end, please observe all local, state, and federal regulations that relate to the disposal of products that contain lead, batteries, plastics, etc.

NOTICE: Service charges incurred due to lack of knowledge relating to how a function or effect works (when the unit is operating as designed) are not covered by the manufacturer's warranty, and are therefore the owners responsibility. Please study this manual carefully and consult your dealer before requesting service.

NAME PLATE LOCATION: The graphic below indicates the location of the name plate. The model number, serial number, power requirements, etc., are located on this plate. You should record the model number, serial number, and the date of purchase in the spaces provided below and retain this manual as a permanent record of your purchase.



Model _____

Serial No. _____

Purchase Date _____

MOUNTING THE CONTROL UNIT TO THE GRAND PIANO

(1) Remove the four screws from the sides of the Control Unit.

(2) Place the metal suspension bracket, included with the Disklavier grand model, over the Control Unit, then secure the metal suspension bracket to the Control Unit using the four countersunk head screws.

(3) Insert the three restraining screws into the marked nuts underneath the treble side key bed, then tighten the screws, leaving a gap of about 5 mm between head of the screw and piano body.

(4) Insert the control cable into the D-SUB connector on the back of the Control Unit, then securely tighten the two screws attached to the connector. Be sure to check the orientation of the D-SUB connector when inserting the cable.

(5) Fit the "slots" of the metal suspension bracket containing the Control Unit to the screws mentioned in step (3).

(6) After mounting the Control Unit, push the Control Unit back as far as it will go and then tighten the three screws to secure the bracket.

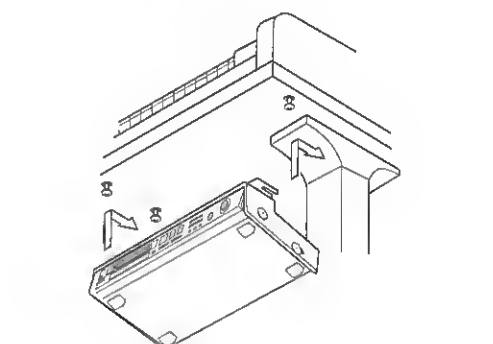
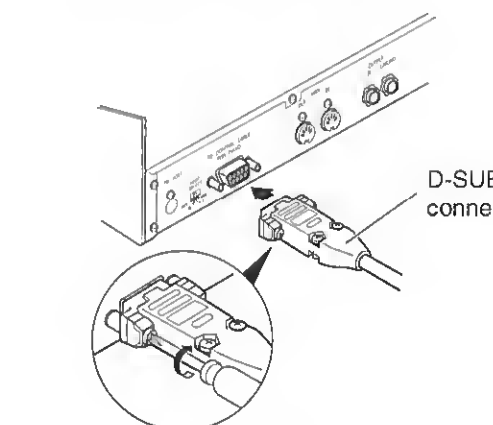
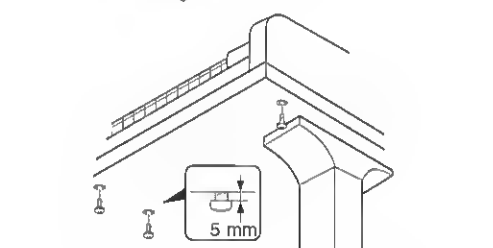
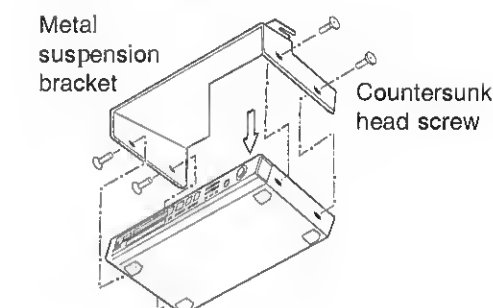
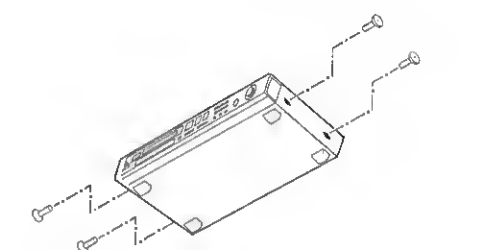
Notes:

1) Handle the metal suspension bracket and the Control Unit carefully to avoid scratches.

2) Attached screw: restraining screws (5 × 12) 3
Countersunk head screws (4 × 10) 4

Removed screws: BWH screws (4 × 4) 4
Store the BWH screws which have been removed in case of future use.

3) When mounted correctly, the Control Unit is angled approximately 18° above horizontal.





disklavier

Mark II XG Series

Getting Started & Playback Manual

Important

Read the following before operating the Disklavier.

Warnings

- Do not locate the Disklavier in a place subject to excessive heat, low temperatures, or direct sunlight. This could be a fire hazard and may damage the finish and internal parts.
- Excessive humidity or dust can lead to fire or electric shock.
- Connect the plug on the Disklavier power cable to a compatible AC outlet. Failure to do so will present a fire and electric shock hazard. If the power cable plug is not compatible with your AC outlet, consult your dealer.
- Do not plug several devices into the same AC outlet. This can overload the AC outlet, and lead to fire and electric shock hazard. It may also affect the performance of some devices.
- Do not place heavy objects on the power cable. A damaged power cable is a potential fire and electric shock hazard. If the power cable runs under a carpet, make sure heavy objects, including the Disklavier, are not placed on top of the cable.
- If the power cable is damaged (i.e. cut or a bare wire is exposed), ask your dealer for a replacement. Using the Disklavier in this condition is a fire and shock hazard.
- When disconnecting the power cable from an AC outlet, always pull from the plug. Never pull the cable. Damaging the cable in this way is a potential fire and electric shock hazard.
- The cover of the unit should be removed only by qualified service technicians.
- Do not place liquid containers such as vases, potted plants, glasses, cosmetic bottles, medicines, etc., on top of the Disklavier.
- Do not try to modify the Disklavier, as this could lead to fire or electric shock hazard.
- When moving the Disklavier to another location, turn off the power, remove the power plug from the AC outlet, and remove all cables connected to external devices.

Cautions

- Turn off all audio devices when connecting to the Disklavier. Refer to the user's guide for each device. Use the correct cables and connect as specified.
- Set the volume level on all the devices to minimum before applying power.
- Do not play the Disklavier at a high volume for extended periods; you may damage your hearing. This is especially important when using headphones. If you think your hearing ability is impaired, consult your doctor.
- If the Disklavier is worked extremely hard – that is, prolonged playback of very “busy” songs – the Disklavier's thermal relay may trip. The thermal relay will automatically reset when the Disklavier has cooled down.
- If you notice any abnormality – such as smoke, odor, or noise – turn off the Disklavier immediately, and remove the power plug from the AC outlet. Consult your dealer for repair.
- If a foreign object or water gets inside the Disklavier turn it off immediately, and remove the power plug from the AC outlet. Consult your dealer.
- If you plan not to use the Disklavier for a long period of time (such as when you are on vacation), disconnect the electrical mains.

- Always remove the power plug from the AC outlet before cleaning the Disklavier. Leaving the power plug connected presents a risk of electric shock.
- Do not use benzene, thinner, cleaning detergent, or a chemical cloth to clean the Disklavier.
- Do not place metal objects with rubber feet on top of the Disklavier. The color and finish of the Disklavier can be damaged.
- Do not place heavy objects on the Disklavier. Doing so can damage the Disklavier.
- Use a soft, dry cloth to clean the Disklavier. However, if you discover a stain, carefully use a soft damp cloth to remove it.

Interference

- The Disklavier uses high-frequency digital circuits that may cause interference to radios and TVs placed close to it. If interference does occur, relocate the affected equipment.

Please keep this manual for future reference.

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Chapter 1

Introduction

Welcome to the Disklavier Mark II XG!

Thank you for purchasing the Disklavier Mark II XG!

The Disklavier is a fascinating instrument that integrates a classic Yamaha acoustic piano with innovative electronics to suit your entertainment, educational, and creative needs, while retaining the tone, touch and long-term value that have long made Yamaha pianos the world's finest.

Versatile Playback Functions

Using an advanced system of fiber-optic sensors, the Disklavier ensures that even the most demanding performance is played back faithfully. The Search function makes it easy to find the music you want to hear, and Repeat functions let you listen to a specified portion of a song repeatedly. You can control the volume, adjust the tempo or change key. A built-in metronome is also provided. With L/R recorded disks, you can listen to the left- or right-hand part separately, or practice one hand while the Disklavier plays the other.

A vast library of Yamaha PianoSoft™ and PianoSoft-Plus™ disks offer world-class professional performances that you can play back on your Disklavier.

Recording Functions

Songs you play on the Disklavier can be recorded with great accuracy. Specially designed optical key and hammer sensors work together to register every aspect of the player's performance without any effect on the feel or motion of the keys. Songs can be recorded onto the new internal Memory Disk, which provides 1MB of memory, or onto standard 3.5" 2DD or 2HD floppy disks.

Left- and right-hand parts can be recorded either separately or simultaneously. You can even record pieces for four hands, and Ensemble songs as well.

Internal XG Tone Generator Features

An XG tone generator is built right into the Control Unit, giving you access to a full spectrum of instrumental accompaniment. You can easily play back Ensemble songs or record the sounds of other instruments to create your own Ensemble song.

Compatible with Yamaha XG and General MIDI standards, the internal tone generator can deliver nearly 700 instrumental and percussion voices.

Music Editing & Utility Functions

The Disklavier supports both E-SEQ and Standard MIDI File format songs and disk types. For compatibility, song formats and disk types can be converted. Other functions include versatile track editing capabilities, plus formatting, copying, and titling disks.

The Mark II XG is equipped with a proprietary Self-Maintenance system — providing an automatic calibration to keep your instrument in factory fresh adjustment for maximum playback sensitivity.

Innovative External Interface

With a simple cable connection, you can play back and record songs using external MIDI devices, such as synthesizers and sequencers. You can also connect your Disklavier directly to a personal computer for a variety of uses.

Items Supplied with the Disklavier

Check that the following items are supplied with your Disklavier.

1	Remote Control
2	Batteries for the Remote Control
1	Disklavier Sample Disk (PianoSoft)
1	Blank Floppy Disk
1	Control Unit Suspension Bracket (Grand models only)*
1	Getting Started & Playback Manual
1	Advanced Operation Manual
1	How to Care for Your Yamaha Piano Guide

* For grand models, the Control Unit may be mounted to the underside of the treble side key bed. See "Mounting the Control Unit to the Grand Piano" at the front of this manual.

Disklavier Owner's Manuals

The Disklavier is supplied with two operating manuals: this *Getting Started & Playback Manual* and an *Advanced Operation Manual*.

(A) Getting Started & Playback Manual

To quickly gain a good understanding of your Disklavier, you should start by reading this manual. This will introduce you to the Disklavier's features and functions, show you how to set up your Disklavier, and how to play back songs. Playback functions include basic functions such as song select, volume adjustment and tempo change, along with other features such as repeat playback, playback using the metronome and pedals, and advanced Ensemble song playback.

(B) Advanced Operation Manual

This manual explains how to record your own songs, and use the various disk and song file utilities, such as song copy, delete, etc. It also shows how the Disklavier can be used in a MIDI system with a MIDI tone generator or MIDI sequencer, or connected to a computer. Chapters on troubleshooting and a glossary of Disklavier terminology are also provided. At the very end of the manual, you will find a supplement on MIDI Data Format information.

Conventions Used in the Disklavier Manuals

Control Unit and Remote Control

Many of the Disklavier's functions can be operated using either the Control Unit or the remote control. When the remote control can be used, the relevant remote control button is illustrated, for example, as below.



Remote Control

When a Control Unit or remote control button is mentioned in the text, the name of the button is enclosed in square brackets, for example, the [PLAY/PAUSE] button.

Pedals

The Disklavier pedals are named as follows throughout this manual.

	Left	Center	Right
Grand model	Shift Pedal	Sostenuto pedal*	Sustain Pedal
Upright model	Soft Pedal	Muffler pedal	Sustain Pedal

* Some models have a bass sustain pedal instead of a sostenuto pedal.

Note: No pedal data is recorded for the Disklavier upright's muffler pedal or the bass sustain pedal fitted to some Disklavier grands. These models can, however, play back songs that contain sostenuto pedal data.

Trademarks & Copyright

Yamaha, Disklavier, PianoSoft, and PianoSoft-Plus are trademarks of Yamaha Corporation. Unauthorized copying of PianoSoft or PianoSoft-Plus disks is prohibited.

MS-DOS is a registered trademark of Microsoft Corporation.

Basic Disklavier Terminology

The following is a list of several basic Disklavier words that you may need to know before proceeding with operational procedures in this manual. For other Disklavier terminology, see the glossary provided on page 99 of the *Advanced Operation Manual*.

Song

A "song" usually means a short piece of music with lyrics. However, in the Disklavier manuals, the term "song" is used to refer to any piece of music.

Disk

"Disk" is used as a generic term to refer to both the floppy disk and internal Memory Disk. All Disklavier playback, recording, and disk utility functions can be used for both the internal Memory Disk and floppy disks.

Floppy Disk

The magnetic storage medium that the Disklavier uses to save songs. The Disklavier uses 3.5 inch 2DD and 2HD floppy disks.

Memory Disk

The Disklavier also has an internal Memory Disk that allows you to store song data without a floppy disk.

PianoSoft™

The PianoSoft Disk Collection is a library of prerecorded song disks, made by Yamaha, specially for use with the Disklavier Series. There are many titles available and music styles include classical, jazz, popular, and others. As well as songs for listening enjoyment, there are piano study disks for the piano student and accompaniment disks for vocal and instrumental practice.

PianoSoft is sometimes used as a generic term for PianoSoft and PianoSoft-Plus.

PianoSoft-Plus™

PianoSoft-Plus disks contain prerecorded Ensemble songs featuring instrumental accompaniment that can be played on the Disklavier. Since this Disklavier has an XG compatible tone generator built in, all you need to start playing an Ensemble song is amplified speakers.

See your Disklavier dealer for a PianoSoft catalog.

L/R Song

In a L/R song, the left-hand piano part is stored on track 1 (L) and the right-hand piano part is stored on track 2 (R). During playback you can cancel either part, and practice that part yourself. When recording an L/R song, you can record the two parts simultaneously or separately.

Ensemble Song

An Ensemble song contains the same left and right-hand parts as an L/R song, and extra tracks that are played by the internal XG tone generator. Accompanying tracks can include acoustic bass, drums, strings, vibes, etc.

MIDI

An acronym for Musical Instrument Digital Interface. MIDI allows electronic musical instruments to communicate with each other.

XG

Yamaha XG is an extension of the GM (General MIDI) format. With greater polyphony, more voice, and effects, it improves song compatibility between MIDI devices. When a song in the Yamaha XG format is played on another XG compatible tone generator or synthesizer, it will play and sound as the original composer/creator intended.

Application Guide

Acoustic Piano Playing

The Disklavier is foremost a fine acoustic piano. The optical sensor system does not interfere in the least with the renowned "touch" of a Yamaha piano. Therefore, you can always play your Disklavier as you would any other Yamaha piano.

Note: It is not necessary to switch on the Disklavier when you simply want to play the piano.

A Wide Variety of Applications

The Disklavier is a wonderfully flexible instrument. This section offers a few general ideas on how you can take the best advantage of your Disklavier.

The following applications are briefly described in this section:

- Home Listening Pleasure
- Vocal or Instrumental Accompaniment
- Music Education and Practice
- Commercial Establishment
- Ensemble Playing Using the Internal XG Tone Generator
- MIDI Musicians and Computer-Based Music Systems

Home Listening Pleasure



You can use your Disklavier to provide live piano entertainment in your home, at any time. The comprehensive PianoSoft collection offers a library of music that the whole family can enjoy, including selections from classical, jazz, easy listening, and popular music.

The full-function remote control enables you to control the Disklavier from your favorite armchair.

When entertaining guests, the Disklavier can be used to provide live or pre-recorded genuine piano performance.

Vocal or Instrumental Accompaniment



With its versatile playback functions, the Disklavier is an ideal accompanist for solo vocal, chorus, flute, violin, trumpet, etc. The PianoSoft Disk Collection includes several disks that are specially designed to accompany a chorus or instrumental soloist. You can also record your own accompaniment disks.

Better still, Disklavier accompaniment can be played at different tempos, in different keys, and any song or passage can be repeated again and again — with far more patience than any living accompanist could muster!

Music Education and Practice



Both teacher and student can benefit from using the Disklavier for study and practice.

For the student, the ability to record and instantly play back a song is both satisfying and educational. For songs that contain difficult passages, the left and right-hand parts can be recorded separately, or even at a slower tempo.

During playback, you can cancel one part (left or right hand), and concentrate your attention on the other part. You can repeat difficult passages over and over, and use the built-in metronome for recording and practice playing.

Commercial Establishments



For dance studios, hotel lobbies, bars, party halls, and restaurants, the Disklavier is the perfect centerpiece. Establishments that provide live piano entertainment can continue to do so at all hours of the day or night, using prerecorded PianoSoft and PianoSoft-Plus (Ensemble) disks or custom recordings by the house musician.

In shopping malls, banks, or other places people meet, what better way to provide an enlightening moment than with the beautiful sound of the Disklavier!

Ensemble Playing Using the Internal Tone Generator



The Disklavier reproduces not only live piano music, but digital accompaniment as well, thanks to the internal XG tone generator. You can play back PianoSoft-Plus pre-recorded Ensemble songs and enjoy the sound of a variety of instruments — brass, woodwind, strings, bass, percussion, and more. You can also compose and record your own, assembling up to 16 different instrument parts.

MIDI Musicians and Computer-Based Music Systems



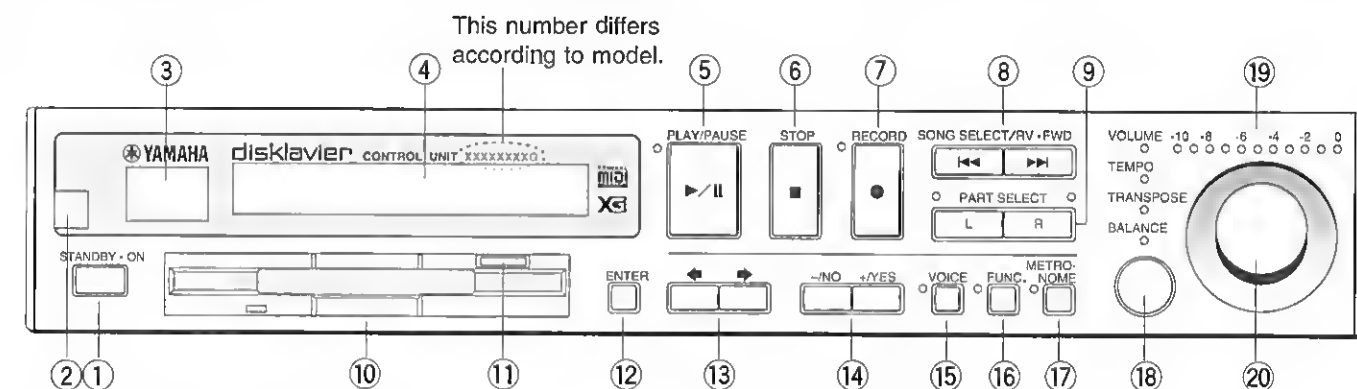
Those who enjoy making computer music can connect the Disklavier to MIDI-compatible synthesizers, sequencers, and drum machines, or to personal computers for a vast range of creative options. With its versatile abilities besides playback and recording functions, the Disklavier is an ideal tool for composition and performance.

Chapter 2

Names of Parts and Their Functions

This chapter describes the functions of the buttons and parts of the Control Unit and remote control that are used to operate the Disklavier and to connect peripheral equipment.

Control Unit — Front Panel



① [STANDBY - ON] button

This switch powers on the Disklavier or puts it in Standby mode. Press once to power on, and again to put it in Standby mode. In Standby mode, the control unit is in effect switched off. However, electrically it is in a state in which a very small quantity of power is being consumed, as the MAINS switch is still ON and the Disklavier is still connected to the AC power receptacle.

② Remote control sensor

When using the remote control, point it toward this sensor.

③ Song number indicator

This is a two-digit display which indicates the number of the currently selected song.

④ Display

This display (LCD) shows the song time and title. It also displays options, parameters, and settings in conjunction with all Disklavier's functions.

⑤ [PLAY/PAUSE] button

This button is used to start and pause playback and recording.

⑥ [STOP] button

This button is used to stop playback and recording.

⑦ [RECORD] button

This button is used to engage the Record Standby mode before recording starts.

⑧ [SONG SELECT/REV-FWD] buttons

These buttons work in three different modes. In Stop mode they select songs. In Play mode they work as fast preview and review. In Pause mode they work as fast forward and reverse.

⑨ PART SELECT [L] [R] buttons

For L/R and Ensemble songs, these buttons allow you to choose which part to play back or record: left-hand part, right-hand part, or both. The indicators light in green during playback, and in red during recording. Pressing both buttons together switches pedal playback on or off so that you can play the pedals yourself.

⑩ Floppy disk drive

Insert floppy disks here for playback, formatting, recording, etc.

⑪ Floppy disk eject button

This button is used to eject disks from the floppy disk drive.

⑫ [ENTER] button

This button is used to select and execute functions.

⑬ [◀] [▶] cursor buttons

These buttons are used to select various options and parameters. They are also used to move the cursor in the display when titling songs and disks, and when calling up a continuing display.

⑭ [-/NO] [+ /YES] buttons

These buttons are used to select options and parameter values. Pressing the [+ /YES] button increases a value. It is also used to answer YES when the Control Unit requires a yes/no-type answer. Pressing the [-/NO] button decreases a value. It is also used to answer NO when the Control Unit requires a yes/no-type answer. Pressing both buttons together returns the setting to its initial factory setting.

⑮ [VOICE] button

This button is used to access the internal XG tone generator when playing the piano. An Ensemble voice you selected from the XG tone generator accompanies your piano playing in unison. See Chapter 11 "Playing the Keyboard with an Ensemble Voice".

⑯ [FUNC.] button

This button is used to access disk and song functions, MIDI setup, and TG Master tune, Silent and reset functions.

⑰ [METRONOME] button

This button is used to access the metronome.

⑱ Selector button

This button is used to select the feature you want to adjust from among Volume, Tempo, Transpose, and Balance.

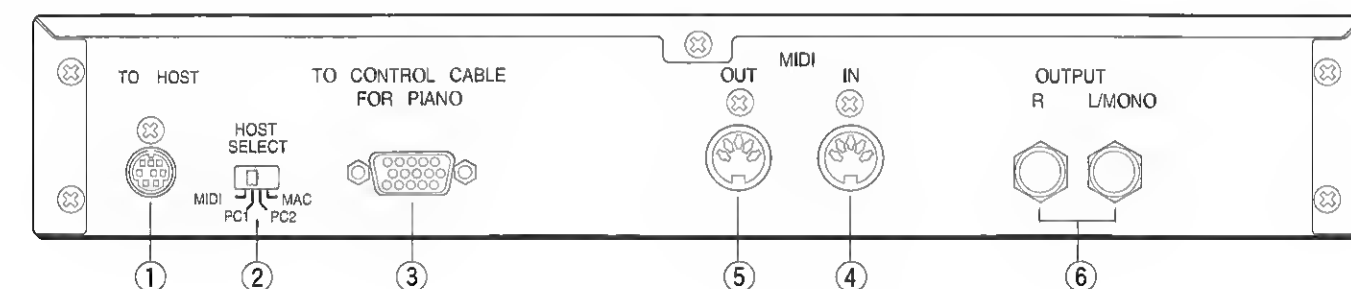
⑲ LED indicators

These LEDs indicate the playback volume level. They also function as a visual metronome.

⑳ Dial

This dial is used to adjust the volume. For upright models, when you set the volume from -7 to -10, the soft pedal mechanism activates and the volume is reduced. This is called "soft mode". This dial also serves to set various parameter values.

Control Unit — Rear Panel



① TO HOST (serial port)

This connector is used to connect the Disklavier with a computer via serial cable.

② HOST SELECT

This switch is used to select the host computer machine to be connected to the TO HOST connector.

③ TO CONTROL CABLE FOR PIANO

The control cable from the piano is connected here.

④ MIDI IN

This connector provides access to the Disklavier and internal XG tone generator. You can connect a MIDI keyboard, synthesizer, or MIDI sequencer to control the Disklavier, internal XG tone generator, or both.

⑤ MIDI OUT

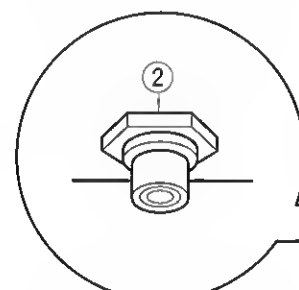
This connector is used to output MIDI data from the Control Unit. It allows output to MIDI-compatible tone generators, synthesizers, samplers, etc.

⑥ OUTPUT R, L/MONO

These connectors are used to output audio signal from the internal XG tone generator. For Ensemble song playback, powered speakers should be connected to these terminals. If your system is mono, use only the L/MONO connector.

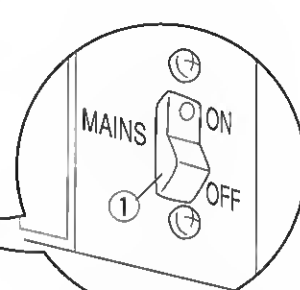
Mains Switch & Foot Controller

Foot Controller connector

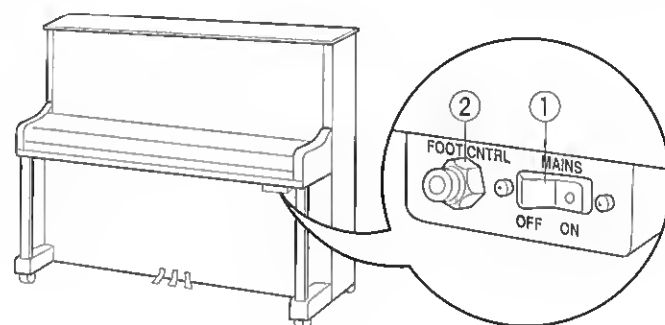


Mounted underneath

Mains switch



Mounted underneath



① MAINS (ON/OFF) switch

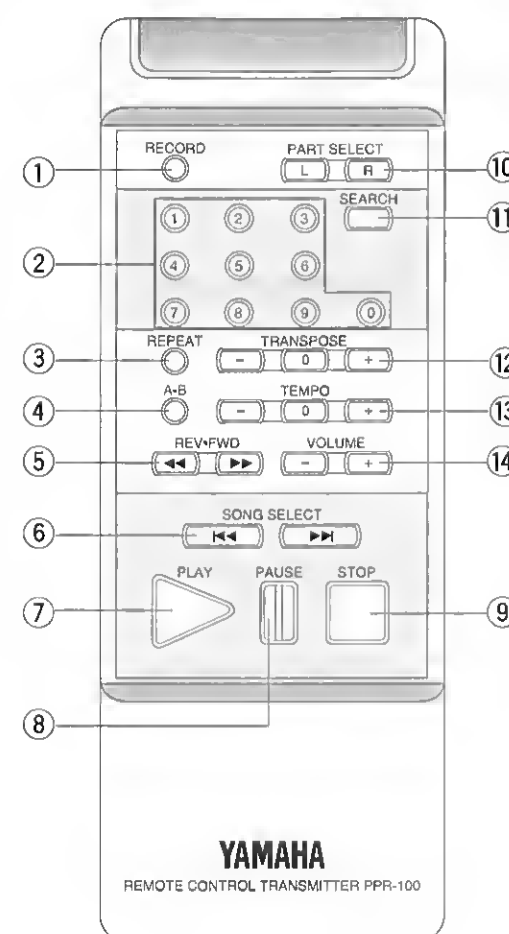
This switch is used to switch the Disklavier on and off. See pages 13 and 14 for information on power ON and OFF procedures.

Note: The MAINS switch only needs to be switched off when you are not going to use the Disklavier for a long period of time. For daily use, only the [STANDBY - ON] button on the Control Unit needs to be switched on and off.

② FOOT CNTRL connector

An optional Yamaha FC-4 or FC-5 foot switch can be connected here for starting and pausing playback, and recording. The optional Yamaha FC-7 foot controller provides control over playback tempo, as well as the above functions.

Remote Control



⑥ [SONG SELECT] buttons

Used to select songs.

⑦ [PLAY] button

Used to start playback.

⑧ [PAUSE] button

Used to pause playback and recording.

⑨ [STOP] button

Used to stop playback and recording.

⑩ [PART SELECT] buttons

For L/R and Ensemble songs, these buttons are used to choose which part will play; left-hand part, right-hand part, or both parts. They are also used to select a part for recording.

⑪ [SEARCH] button*

Used to start playback from a specific time in a song. Press this button, enter the start time using the Number keypad, then press this button again.

⑫ [TRANPOSE] buttons

Used to transpose song playback. Press the [-] button to transpose down, the [+] button to transpose up. The [0] button is used to reset the transposition value to 00.

⑬ [TEMPO] buttons

Used to change the playback tempo. Press the [-] button to decrease the tempo, the [+] button to increase the tempo. The [0] button is used to reset the tempo to 00.

⑭ [VOLUME] buttons

Used to adjust the volume. Press [-] button to decrease the volume, and the [+] button to increase the volume.

① [RECORD] button

Press to engage the Record Standby mode before recording starts.

② Number keypad*

Used for direct song selection and to enter a start time for song playback.

③ [REPEAT] button*

Used to select one of the Repeat functions: ALL, RPT, or RND.

④ [A-B] button*

Used to enter A and B points for Segments A~B and A~ Repeat modes.

⑤ [REV-FWD] buttons

In Play mode, these buttons work as fast preview and review. In Pause mode, they work as fast forward and reverse.

* These buttons are available only on the remote control.

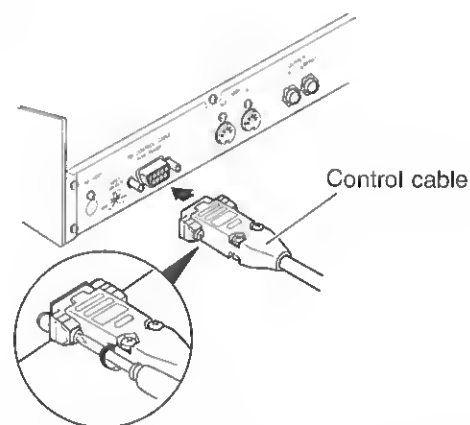
Chapter 3

Setting Up Your Disklavier

Set up your Disklavier in the following order.

Connecting the Control Unit

Make sure that the control cable extending from the piano is connected to the TO CONTROL CABLE FOR PIANO connector on rear of the Control Unit.



Note: The control cable should have been connected to the Control Unit when the Disklavier was installed. If, however, it was not, carefully connect the control cable to the Control Unit's TO CONTROL CABLE FOR PIANO connector on the rear panel. See step (4) in "Mounting the Control Unit to the Grand Piano" in the front of this manual.

The Control Unit may be placed on any stable surface on, near, or away from the Disklavier as far as the length of the cable will permit.

For the Disklavier grand, the Control Unit may be mounted to the underside of the treble side key bed. See "Mounting the Control Unit to the Grand Piano" at the front of this manual.

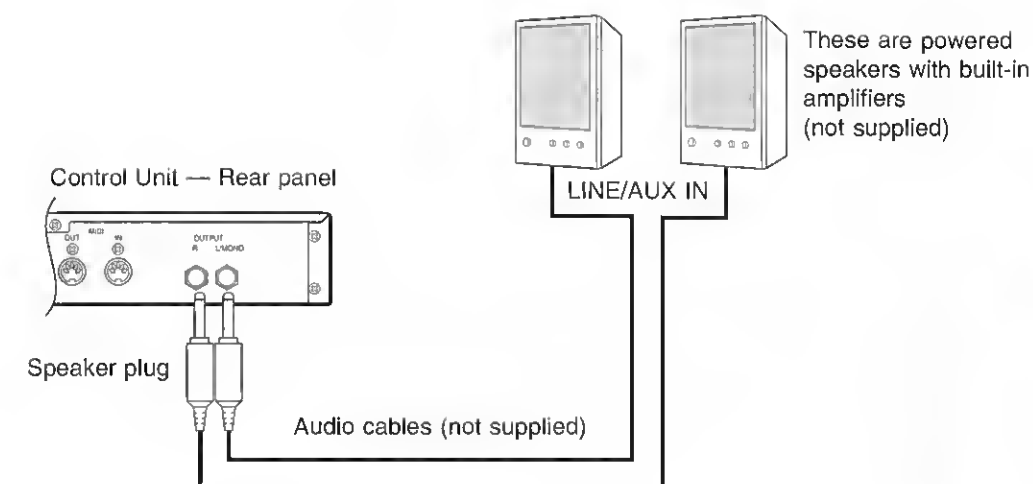
Connecting the Power Cable

Connect the Disklavier's power cable to an AC wall outlet.

Important: Make sure that the voltage of the AC wall outlet matches that marked on the Disklavier's Serial No. plate.

Connecting a Speaker System

To enjoy Ensemble songs, connect powered speakers to the Disklavier's OUTPUT terminals, as shown on the next page. You can also use a separate amplifier with speakers. If your sound system is mono, use only the L/MONO connector for the best sound.



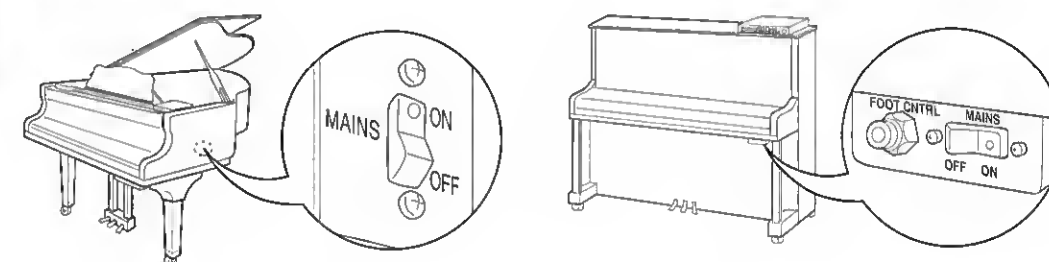
Connecting Other Equipment

To connect MIDI instruments to the Disklavier, see Chapter 8 "The Disklavier & MIDI" in the *Advanced Operation Manual*.

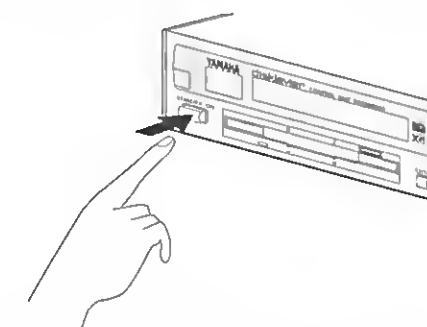
To connect a computer to the Disklavier, see Chapter 9 "The Disklavier & Computers" in the *Advanced Operation Manual*.

Power On Procedure

1 Set the MAINS switch to ON.



2 Press the [STANDBY - ON] button on the front panel of the Control Unit.



The following message appears on the display.

```
***** YAMAHA *****  
***** DISKLAVIER *****
```

3

Turn your sound system on if you will be playing back Ensemble songs.

Your Disklavier is now ready for use.

Power Off Procedure

1

Press the [STANDBY - ON] button on the Control Unit.

2

Set the MAINS switch to OFF.

3

If you were using a sound system, turn it off.

Operating the Disklavier's MAINS switch is effectively the same as disconnecting the power cable from an AC wall outlet. So if the Disklavier is used regularly, you only need to use the [STANDBY - ON] button on the Control Unit. If the Disklavier is not going to be used for a long period, set the MAINS switch to OFF.

Note: The [STANDBY - ON] button on the control panel must be switched off before switching off the MAINS switch so that "soft mode", if used, is released. If soft mode is not released, the keyboard will become uneven, and the piano action will be unfit for playing. See "Adjusting the Volume" on page 26.

When the Disklavier is powered off, wait at least 5 seconds before powering on again.

Chapter 4

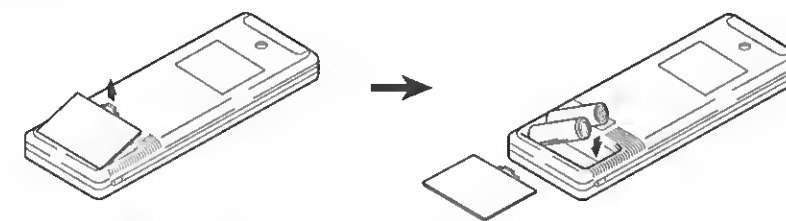
Using the Remote Control

The Disklavier is equipped with a remote control which allows convenient control from almost anywhere in the room. This chapter provides notes on handling the remote control.

Installing Batteries in the Remote Control

Before the remote control can be used, the two batteries supplied with the Disklavier must be installed.

Remove the battery cover from the rear of the remote control (shown left), and install the batteries (shown right). Then, replace the cover.



A diagram inside the battery compartment shows which way they should be installed. Make sure that you insert the batteries correctly.

Battery Replacement

- When the remote control fails to work from a distance, replace the batteries.
- Replacement batteries should be UM-3, AA, R6P, or LR6 type.
- Always replace both batteries.
- If the remote control is not to be used for a prolonged period of time, remove the batteries to prevent possible damage by battery leakage.

Using the Remote Control

To use the remote control, point it at the remote control sensor on the Control Unit, as shown below, and press a button.

